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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/633,566	08/05/2003	Tamon Kasajima	033211-037	7157
21839	7590 07/14/2005		EXAMINER	
BUCHANAN INGERSOLL PC (INCLUDING BURNS, DOANE, SWECKER & MATHIS) POST OFFICE BOX 1404			BLOUIN, MARK S	
			ART UNIT	PAPER NUMBER
ALEXANDRIA, VA 22313-1404		2653		

DATE MAILED: 07/14/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/633,566	KASAJIMA ET AL.				
Office Action Summary	Examiner	Art Unit				
·	Mark Blouin	2653				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a r - If NO period for reply is specified above, the maximum statutory peri - Failure to reply within the set or extended period for reply will, by stat Any reply received by the Office later than three months after the ma earned patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a reply be time reply within the statutory minimum of thirty (30) days od will apply and will expire SIX (6) MONTHS from tute, cause the application to become ABANDONEI	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 04	! May 2005.					
	his action is non-final.					
• • • • • • • • • • • • • • • • • • • •	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ☐ Claim(s) 1-16 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-16 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) ☐ The specification is objected to by the Examination The drawing(s) filed on <u>05 August 2003</u> is/ar Applicant may not request that any objection to the Replacement drawing sheet(s) including the corrupt The oath or declaration is objected to by the	re: a) \square accepted or b) \square objected the drawing(s) be held in abeyance. See rection is required if the drawing(s) is obj	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/t Paper No(s)/Mail Date	Paper No(s)/Mail Da					

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Detailed Action

Response to Amendment

• The reply filed on May 4, 2005 was applied to the following effect: Claims 1 and 6 were amended, and Claims 11-16 are newly added.

Claim Rejections - 35 USC § 102

- 1. The following is a quotation of 35 U.S.C. 102(b) which forms the basis for all obviousness rejections set forth in this Office action:
 - (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-10 are rejected under 35 U.S.C. 102(b) as being anticipated by Hudson et al (USPN 6,229,667).
- 3. Regarding Claims 1 and 6, Hudson et al shows (Figs. 2-4) a disk drive apparatus including at least one information recording disk, and at least one head arm assembly that comprises a head slider (42) having at least one head element (41), a high-stiffness arm member (3) for supporting the head slider at one end section, an actuator mounted to the other end section of the arm member (2), for rotationally moving the arm member in a direction substantially parallel with a surface of the information recording disk around a horizontal rotation axis of the arm member, and a resilient plate spring (49) for generating a load, the plate spring having one end section fixed to the arm member and the other end section provided with a load point for energizing the head slider in a direction to the surface of the information recording disk.
- 4. Regarding Claims 2 and 7, Hudson et al shows (Figs. 2-4) the disk drive apparatus and head arm assembly (Fig. 2), wherein the head arm assembly further comprises a flexure (3) with

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one end section fixed to the arm member (2), the flexure having a resilience for determining flying attitude of the head slider.

- 5. Regarding Claims 3 and 8, Hudson et al shows (Figs. 2-4) the disk drive apparatus and head arm assembly (Fig. 2), wherein one end of the plate spring (3) is fixed to a first surface (top) of the arm member, a second surface (bottom) of the arm member facing the recording medium surface, and wherein the one end section of the flexure is fixed to the second surface of the arm member.
- Regarding Claims 4 and 9, Hudson et al shows (Figs. 2-4) the disk drive apparatus, wherein the horizontal rotation axis is provided at a horizontal bearing section (the portion with the threads shown) located at a midpoint of the arm member, and wherein the horizontal bearing section has means for adjusting a distance between the arm member and the surface of the information recording disk.
- 7. Regarding Claims 5 and 10, Hudson et al shows (Figs. 2-4) the disk drive apparatus and head arm assembly (Fig. 2), wherein the at least one head element comprises at least one thin-film magnetic head element (41).

Claim Rejections - 35 USC § 103

- 8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which the subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 9. Claims 11-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hudson et al (USPN 6,229,667) in view of Goss (USPN 5,786,961).

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Regarding Claims 11-16, Hudson et al shows all the features described, *supra*, but does not show a resilient plate spring has a dimple ball fixed to a top end section thereof.

Goss shows (Figs. 2 and 4) a resilient plate spring has a dimple ball fixed to a top end section thereof.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the actuator arm of Hudson et al with the gimbal assembly of Goss. The rationale is as follows: One of ordinary skill in the art at the time the invention was made would have been motivated to provide the actuator arm of Hudson et al with the gimbal assembly of Goss in order to maintain the optimum flying height of the head over the disk.

Response to Arguments

10. Applicant's arguments with respect to claims 1-16 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

11. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

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however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark Blouin whose telephone number is (703) 305-5629. The examiner can normally be reached M-F, 6:00 am – 3:30 pm.

If attempts to reach the examiner by telephone are unsuccessful the examiner's supervisor, William Korzuch can be reached at (703) 305-6137. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9314 for regular and After Final communications.

Any inquiry of general nature or relating to the status of application or proceeding should be directed to the receptionist whose telephone number is (703) 306-0377.

Mark Blouin Patent Examiner Art Unit 2653 June 28, 2005

> A. J. HEINZ PRIMARY EXAMINER GROUP 2539 A. U. 2 6 5 3